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enter  
substitute  
Spec 9/3/0  
JP

DISTRIBUTED COMMUNICATING SYSTEM, DISTRIBUTED COMMUNICATION  
DATA, DISTRIBUTED TRANSMITTING MEANS AND DISTRIBUTED  
RECEIVING MEANS

5       The entire disclosure of Japanese Patent Application No. 2000-134117 filed on  
May 8, 2000 including specification, claims, drawings and summary is incorporated  
herein by reference in its entirety.

Background of the Invention

10       The invention relates to data transmitting means with high communicating  
reliability and high masking performance by utilizing a plurality of communicating lines  
when data is transmitted to a remote place.

Network communication such as a leased line, a telephone communication line  
and a radio communication line has been used as means for transmitting data stored in a  
15   device such as a personal computer and a workstation to a device such as a personal  
computer or a workstation located at a remote place.

Recently, lines commonly used with third parties such as the Internet are used  
much more than leased lines.

In the case of communicating with a network, it has often happened that  
20   transmitting data was intermitted, caused by troubles on the network such as a shutdown  
of a communication line and faults of the transmitting device. In the conventional art, in  
such a case, communication devices are handshaked with each other so as to detect the  
missing part of the data and retry to transmit the missing part of the data.